## IN THE CLAIMS

Presented below are all of the pending claims in a clean, un-marked format. Claims that have not been amended are included with the notation "Unamended".

1. (Once amended) An apparatus, comprising:

a metal-oxide-semiconductor transistor with a shifted during manufacture flat band magnitude;

a metallic gate electrode coupled to said metal-oxide-semiconductor transistor and to a positive voltage source; and

a metallic source electrode, a metallic drain electrode, and a substrate electrode of said metal-oxide-semiconductor transistor coupled to each other and to a negative voltage source.

- 2. (Twice amended) The apparatus of claim 1, wherein said metal-oxide-semiconductor includes a diffused gate region material with a work function less than -0.56 volts.
- 3. (Twice amended) The apparatus of claim 2, wherein said diffused gate region material is platinum silicate.
- 4. (Twice amended) The apparatus of claim 2, wherein said diffused gate region material is selected from the group consisting of tantalum nitrate, iridium, nickel, and arsenic.

- 5. (Unamended) The apparatus of claim 1, wherein said metal-oxide-semiconductor transistor includes a heavily-doped substrate area.
- 6. (Unamended) The apparatus of claim 1, wherein said metal-oxide-semiconductor transistor is a p-channel device.
- 7. (Unamended) The apparatus of claim 1, wherein said metal-oxide-transistor is an n-channel device.
- 15. (Once amended) An apparatus, comprising:

means for shifting a flat band magnitude in a metal-oxide-semiconductor transistor;

means for coupling a pretallic gate electrode of said metal-oxide-semiconductor transistor

to a positive voltage source; and

means for coupling a metallic source electrode, a metallic drain electrode, and a substrate electrode of said metal-oxide-semiconductor transistor to a negative voltage source.

- 16. (Twice amended) The apparatus of claim 15, wherein said means for shifting includes a diffused gate region with a material whose work function is less than -0.56 volts.
- 17. (Unamended) The apparatus of claim 16, wherein said material is platinum silicate.

- 18. (Unamended) The apparatus of claim 16, wherein said material is selected from the group consisting of tantalum nitrate, iridium, nickel, and arsenic.
- 19. (Unamended) The apparatus of claim 15, wherein said means for shifting includes a substrate which is heavily-doped.
- 20. (New) An apparatus, comprising:

a metallic gate electrode to couple to a positive power supply voltage;

a diffused gate region with a material whose work function is less than minus 0.56 volts;

a gate insulator area;

a channel area coupled to said gate insulator area;

a diffused drain area coupled to said channel area; and

a diffused source area coupled to said channel area.

- 21. (New) The apparatus of claim 20, wherein said material is platinum silicate.
- 22. (New) The apparatus of claim 20, wherein said material is selected from the group consisting of tantalum nitrate, iridium, nickel, and arsenic.
- 23. (New) The apparatus of claim 20, further comprising a substrate which is heavily-doped.